

Title (en)  
SCROLL COMPRESSOR

Title (de)  
SPIRALVERDICHTER

Title (fr)  
COMPRESSEUR À VOLUTES

Publication  
**EP 3032103 B1 20191225 (EN)**

Application  
**EP 14833953 A 20140716**

Priority  
• CN 201310342191 A 20130807  
• CN 201320481483 U 20130807  
• CN 2014082316 W 20140716

Abstract (en)  
[origin: EP3032103A1] The present invention relates to a scroll compressor (100). The scroll compressor comprises a shell (10); a fixed scroll component (80) and a moving scroll component (70) arranged in the shell, wherein the fixed scroll component is fixed relative to the shell, and the moving scroll component can float in the axial direction relative to the fixed scroll component; a main bearing base (40) is arranged in the shell to support the moving scroll component, a back pressure cavity (B) is formed between the moving scroll component and the main bearing base and communicated with fluid of a compression cavity (C2) through a communication channel (73), the communication channel (73) is formed in the moving scroll component, and the compression cavity (C2) is formed between the fixed scroll component and the moving scroll component; and valve components (90, 90A) arranged in the communication channel (73) are formed to respond the pressure difference between the compression cavity and the back pressure cavity so as to provide a first aperture and a second aperture, and the second aperture is smaller than the first aperture.

IPC 8 full level  
**F04C 18/02** (2006.01); **F04C 27/00** (2006.01); **F04C 28/24** (2006.01); **F04C 29/12** (2006.01)

CPC (source: EP US)  
**F04C 18/0215** (2013.01 - EP US); **F04C 18/0261** (2013.01 - EP US); **F04C 29/128** (2013.01 - US); **F04C 27/005** (2013.01 - EP US); **F04C 28/24** (2013.01 - EP US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3032103 A1 20160615**; **EP 3032103 A4 20160713**; **EP 3032103 B1 20191225**; US 10400772 B2 20190903; US 2016177953 A1 20160623; WO 2015018268 A1 20150212

DOCDB simple family (application)  
**EP 14833953 A 20140716**; CN 2014082316 W 20140716; US 201414910503 A 20140716